

I CLAIM:

1. A cleaning apparatus for removing impurities from exhaust gas, comprising:

5 a gas treating pipe including an upper section, a lower section, and an intermediate section extending from said lower section to said upper section, said intermediate section having a plurality of bent parts, said upper section having a gas exit;

10 a liquid supplier fluidly communicated with said upper section of said gas treating pipe below said gas exit;

an exhaust gas pipe connected to said lower section of said gas treating pipe; and

15 a liquid outlet provided at said lower section of said gas treating pipe.

2. The cleaning apparatus as claimed in Claim 1, wherein said gas treating pipe is formed in a zig-zag shape.

3. The cleaning apparatus as claimed in Claim 1, wherein said gas treating pipe is formed as a coil.

20 4. The cleaning apparatus as claimed in Claim 1, wherein said lower section of said gas treating pipe includes: a removable end part which has an upstream end attached removably to said lower section of said gas treating pipe, and a downstream end provided with said liquid outlet; a valve for controlling fluid flow through said liquid outlet; and a filter disposed in said removable
25 end part adjacent to said upstream end.

5. The cleaning apparatus as claimed in Claim 1, wherein said liquid supplier includes water.

6. The cleaning apparatus as claimed in Claim 1, wherein said exhaust gas pipe includes a bubble forming section extending into said lower section of said gas treating pipe, said bubble forming section having a plurality of pores for forming the exhaust gas into bubbles in said gas treating pipe.

7. The cleaning apparatus as claimed in Claim 1, further comprising a liquid recirculating member having opposite first and second end portions connected respectively to said lower and upper sections of said gas treating pipe for recycling liquid, and a pump connected between said first and second end portions.

8. The cleaning apparatus as claimed in Claim 7, wherein said liquid supplier further includes a liquid level detector extending into said upper section of said gas treating pipe at a level higher than said second end portion of said liquid recirculating member for producing a signal to activate said liquid supplier when a liquid level in said gas treating pipe is lower than a predetermined level.